CLAIMS

1. (Deleted)

2. (Deleted)

3. (Amended) An inverter device comprising:

an output-voltage calculating unit that calculates an output voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period;

a PWM-pattern generating unit that outputs a PWM signal according to the output-voltage command value output by the output-voltage calculating unit; and

a switching unit that switches a direct voltage according to the PWM signal output by the PWM-pattern generating unit and supplies an alternating voltage with a predetermined frequency to the motor, wherein

the output-voltage calculating unit includes

a function of calculating a larger number of output-voltage command values, when the frequency command value is greater than a predetermined value, than a case of being smaller than the predetermined value.

4. (Amended) An inverter device comprising:

an output-voltage calculating unit that calculates an output voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period;

a PWM-pattern generating unit that outputs a PWM signal according to the output-voltage command value output by the output-voltage calculating unit; and

a switching unit that switches a direct voltage

according to the PWM signal output by the PWM-pattern generating unit and supplies an alternating voltage with a predetermined frequency to the motor, wherein

the output-voltage calculating unit includes

a function of calculating a plurality of output-voltage command values when the frequency command value is greater than a predetermined value, and calculating one output-voltage command value when it is smaller than the predetermined value.

5. (Deleted)

6. (Deleted)